

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
and the
NATIONAL MARINE FISHERIES SERVICE

Postdoctoral Scholar

The [Institute of Marine Sciences](#) at the University of California, Santa Cruz, and the [National Marine Fisheries Service](#) seek a postdoctoral scholar to conduct original research on salmon bioenergetics. The position will involve development of a numerical simulation model that will allow prediction of river temperature from meteorological and hydrological data and examination of the effect of varying stream temperature and flow on growth, movement and survival of Pacific salmonids, including Chinook salmon, coho salmon and steelhead/rainbow trout. The postdoc needed for this project will be responsible for the salmonid model, which should be based on bioenergetic principles and be capable of predicting sub-lethal as well as lethal effects of summertime water temperature regimes. She/he will review recent literature, develop one or several approaches to this problem, and program it in MATLAB, C or FORTRAN in such a way that it will integrate with the river temperature model. The postdoc will be responsible for parameter estimation, sensitivity analysis, model corroboration, and design of experiments to examine different hypotheses about foraging and the effects of spatially and temporally-varying water temperature. The postdoc may participate in field studies and experiments designed to test model predictions that may involve visual observation and radiotelemetry. The postdoc will analyze results, and summarize them in the form of reports, refereed journal publications and/or meeting presentations and seminars.

RANK: Postdoctoral Scholar

SALARY: \$36,540 to \$45,024 annually, commensurate with qualifications and experience

MINIMUM QUALIFICATIONS: Experience in Fisheries, Quantitative Ecology or a related field, must have expertise in working with mathematical and numerical simulation models, statistical methods & parameter estimation, experimental design and data analysis. Experience in computer programming (MATLAB, C or FORTRAN) is necessary.

TERM OF APPOINTMENT: Intent of initial appointment is for two years, with reappointment after one year, contingent upon positive performance review and availability of funding.

SPECIAL CONDITIONS OF EMPLOYMENT: In order to comply with security measures at the National Marine Fisheries Service (a federal facility on the UCSC campus), the selected candidate will be required to participate in a federal security clearance, be fingerprinted, and wear a photo I.D. badge. Occasional travel for periods up to one week may be required.

POSITION START DATE: As soon as possible following initial screening date.

TO APPLY: *Electronic submissions are preferred.* Applicants should send 1) Curriculum Vitae, 2) a summary of research, and 3) three letters of recommendation* to danner@biology.ucsc.edu. You will receive email verification that your electronic submission has been received. Please inquire if you do not receive verification.

Alternately, mail submissions may be sent to:

Eric Danner

National Marine Fisheries Service

110 Shaffer Road

Santa Cruz, CA 95060

Please refer to position #T09-43 in your reply.

Inquiries can be sent to: danner@biology.ucsc.edu

**All letters will be treated as confidential documents; please direct your references to UCSC's confidentiality statement at http://apo.ucsc.edu/academic_policies_and_procedures/cappm/confstm.htm*

CLOSING DATE: For the initial review, applications must be received by **May 1, 2009**. Position is open until filled.

The University of California, Santa Cruz is an Affirmative Action/Equal Employment Opportunity Employer, committed to excellence through diversity. We strive to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees.

Inquiries regarding the University's equal employment opportunity policies may be directed to: Equal Employment Opportunity/Affirmative Action Office at the University of California, Santa Cruz, CA 95064; (831) 459-2686. Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986.

If you need assistance due to a disability please contact the Academic Personnel Office at 499 Clark Kerr Hall (831) 459-4300. This position description is available in alternate formats, which may be requested from Academic Personnel at (831) 459-4300.